Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P319188

Luminaire Tested: **GLEON-SA4A-830-U-T4W**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P319188
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4A-830-U-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14834 lumens
Efficiency:	N/A
Efficacy:	115.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	129
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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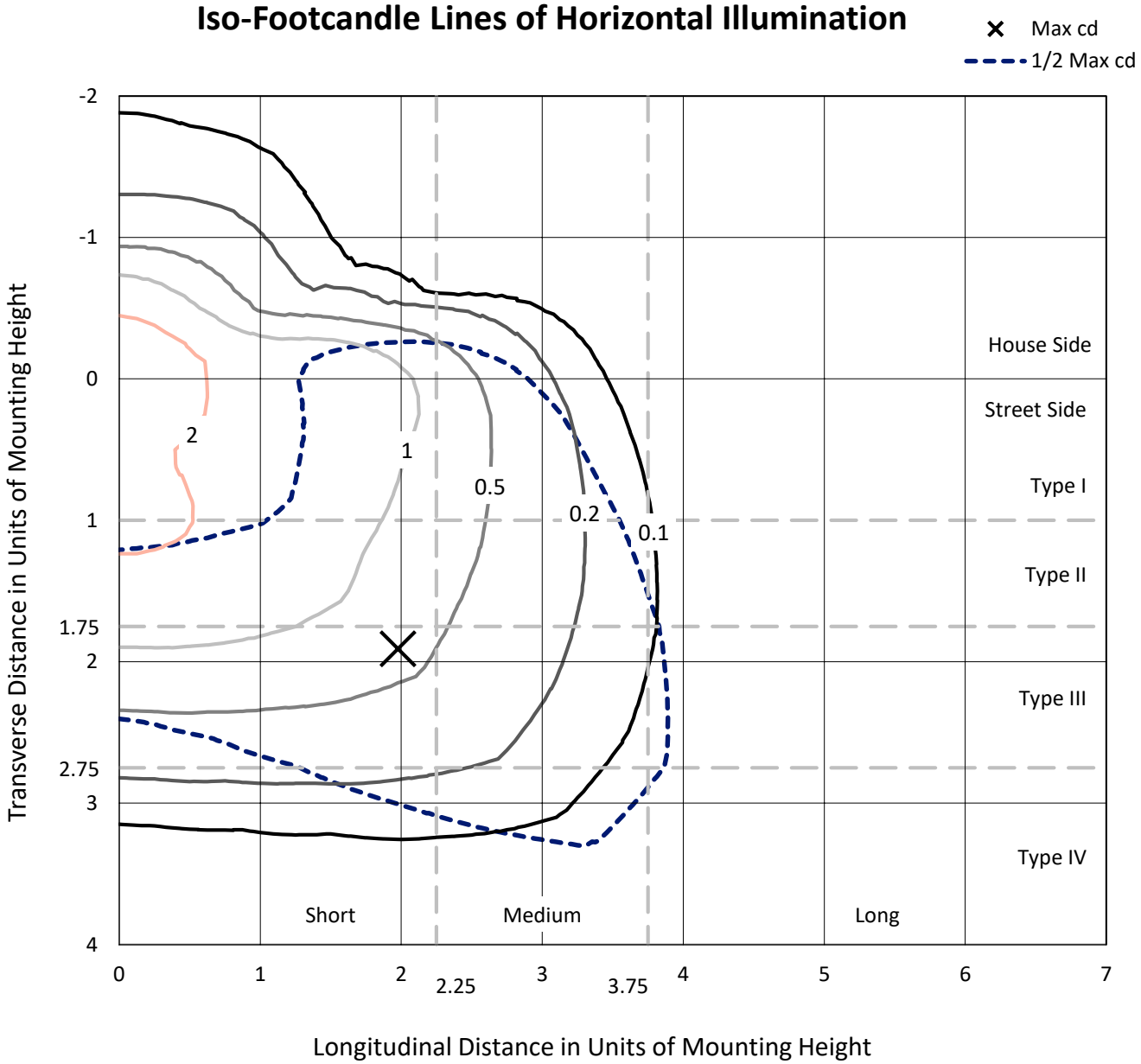
Scaled Data Report

REPORT NUMBER: P319188
CATALOG NUMBER: GLEON-SA4A-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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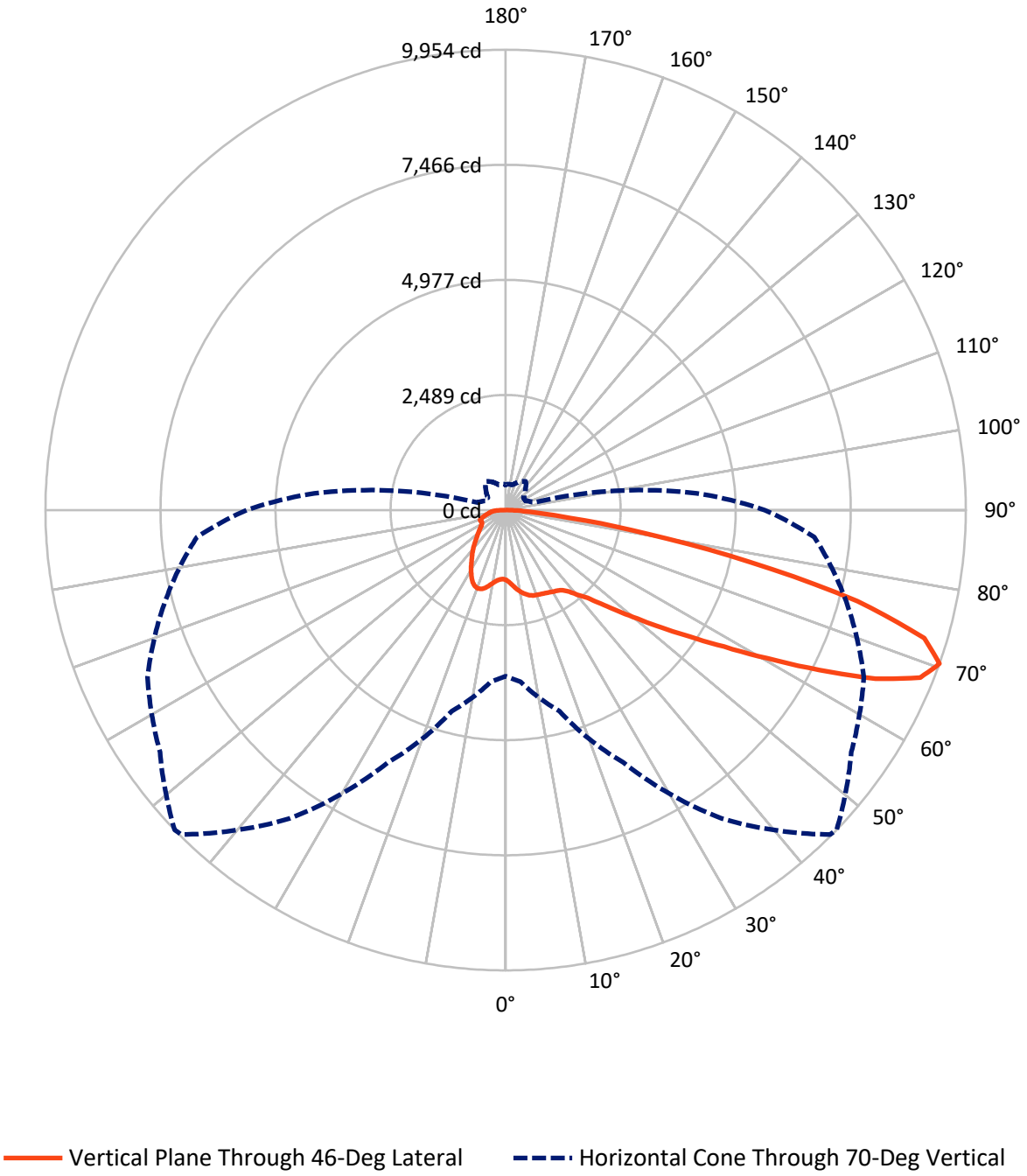
Luminous Intensity Polar Plot



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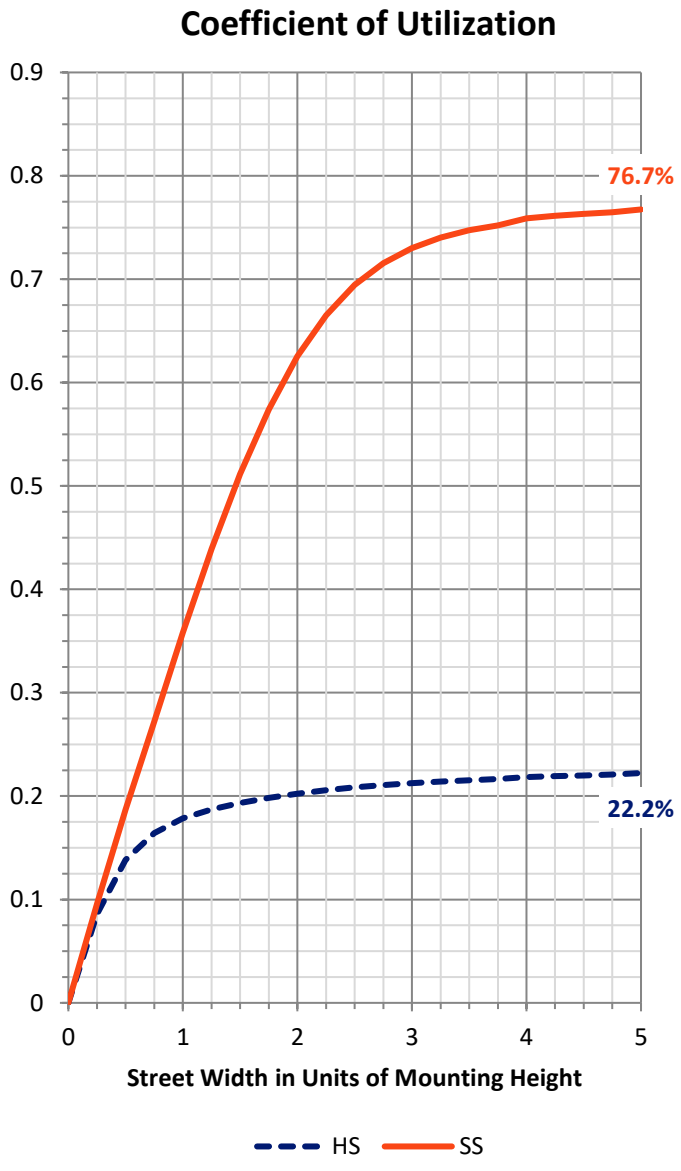
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3399.9	0.0	3399.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11434.1	0.0	11434.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	14834.0	0.0	14834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.0
10°-20°	513.3	3.5
20°-30°	855.9	5.8
30°-40°	1214.5	8.2
40°-50°	1786.5	12.0
50°-60°	3025.4	20.4
60°-70°	4294.6	29.0
70°-80°	2609.0	17.6
80°-90°	380.8	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14834.0	100.0
0°-180°	14834.0	100.0



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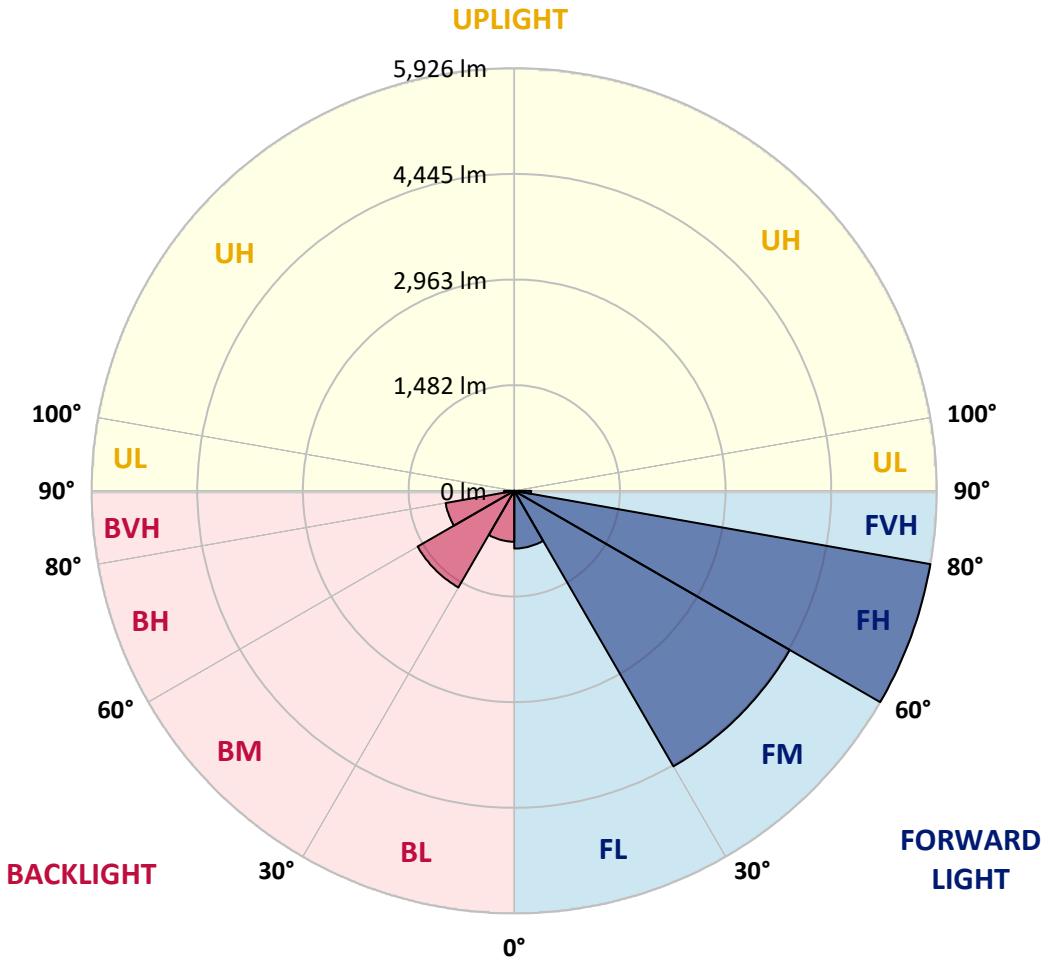
REPORT NUMBER: P319188
CATALOG NUMBER: GLEON-SA4A-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	809.4	5.5			
FM	(30°-60°)	4461.4	30.1			
FH	(60°-80°)	5926.1	39.9			G3/7500
FVH	(80°-90°)	237.2	1.6			G3/500
BL	(0°-30°)	713.8	4.8	B2/1000		
BM	(30°-60°)	1565.1	10.6	B2/2500		
BH	(60°-80°)	977.4	6.6	B2/1000		G2/1000
BVH	(80°-90°)	143.6	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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REPORT NUMBER: P319188
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	*1511.3*	1511.3	1511.3	1511.3	1511.3
2.5°	1586.9	1588.0	1590.0	1584.9	1570.7	1566.6	*1565.1*	1550.4	1540.7	1526.5	1514.3
5°	1713.8	1714.9	1711.8	1697.6	1666.1	1642.8	*1640.7*	1607.2	1576.8	1544.3	1519.9
7.5°	1846.3	1847.9	1838.2	1811.3	1767.2	1726.5	*1724.0*	1678.3	1632.1	1582.9	1546.3
10°	1963.6	1957.5	1941.8	1904.2	1851.9	1802.2	*1800.2*	1752.4	1699.1	1639.7	1591.0
12.5°	2041.8	2036.7	2016.4	1970.7	1913.4	1867.7	*1863.6*	1819.4	1767.7	1702.7	1644.3
15°	2084.9	2088.5	2061.1	2009.3	1953.5	1914.9	*1911.3*	1879.9	1833.7	1768.2	1701.2
17.5°	2090.5	2093.6	2067.2	2015.9	1970.2	1943.8	*1942.3*	1921.5	1888.0	1825.0	1755.0
20°	2058.0	2060.1	2038.2	1996.1	1966.2	1958.0	*1957.5*	1948.4	1923.5	1867.7	1799.6
22.5°	2010.8	2012.4	1996.6	1966.2	1956.0	1968.7	*1972.2*	1968.7	1950.9	1898.6	1834.7
25°	1999.2	1998.1	1981.9	1950.9	1959.6	1986.5	*1991.0*	1992.6	1980.4	1934.7	1879.3
27.5°	2055.5	2051.9	2021.0	1971.2	1976.8	2009.3	*2015.4*	2030.1	2022.5	1982.4	1930.1
30°	2218.5	2212.4	2148.9	2048.4	2021.0	2037.7	*2045.3*	2068.7	2070.2	2036.7	1997.6
32.5°	2493.6	2486.0	2372.3	2192.6	2095.6	2066.7	*2073.8*	2108.8	2127.6	2101.7	2059.6
35°	2841.4	2832.7	2683.5	2437.8	2220.5	2122.0	*2127.1*	2155.0	2192.6	2156.0	2100.2
37.5°	3203.8	3183.0	3039.3	2726.1	2419.0	2240.3	*2240.3*	2243.8	2261.6	2185.5	2147.9
40°	3564.3	3543.4	3413.5	3065.2	2675.9	2426.6	*2414.9*	2336.2	2322.0	2256.5	2243.8
42.5°	3899.3	3893.2	3816.6	3448.5	2977.4	2609.9	*2593.6*	2460.1	2463.2	2422.5	2423.0
45°	4255.7	4255.7	4193.2	3835.3	3328.7	2904.3	*2888.1*	2691.6	2722.1	2703.3	2748.5
47.5°	4546.6	4555.7	4547.1	4238.4	3737.4	3278.4	*3249.0*	3012.4	3097.7	3162.2	3293.7
50°	4843.6	4857.8	4859.3	4680.6	4231.3	3723.2	*3689.6*	3438.4	3628.7	3813.5	4071.9
52.5°	5274.6	5306.5	5179.1	5121.7	4836.4	4251.1	*4218.1*	3986.1	4303.9	4563.3	5008.5
55°	5674.1	5646.2	5555.3	5590.8	5484.2	4852.2	*4827.3*	4623.7	5056.3	5393.3	5971.6
57.5°	5890.3	5888.3	5979.7	6132.0	6182.8	5593.4	*5572.5*	5374.6	5904.6	6157.9	6875.7
60°	6144.2	6147.7	6374.1	6719.9	6929.0	6516.3	*6507.1*	6356.9	6728.5	6871.6	7584.9
62.5°	6179.7	6243.7	6633.6	7228.5	7627.5	7594.5	*7614.9*	7241.7	7465.6	7441.2	8114.4
65°	5771.0	5855.3	6561.0	7382.3	8322.0	8773.8	*8792.6*	8131.6	8046.9	7928.1	8303.7
67.5°	4933.4	5058.3	5824.9	7047.8	8551.0	9645.5	*9671.9*	8821.6	8529.1	8093.1	7847.9
70°	*3590.1*	*3728.7*	*4500.4*	*6019.3*	*8142.8*	*9924.2*	*9954.1*	*9126.7*	*8547.4*	*7623.5*	*6699.5*
72.5°	2168.7	2277.3	2913.4	4431.3	6872.7	9416.5	*9469.8*	8739.8	7803.7	6457.4	4947.1
75°	952.4	1023.4	1408.7	2553.5	4920.2	7791.0	*7857.5*	7480.8	6340.6	4692.8	2924.1
77.5°	405.6	425.9	577.7	1109.2	2781.5	5323.8	*5415.2*	5465.9	4301.9	2553.5	1235.6
80°	252.8	260.9	326.9	502.1	1301.6	2990.1	*3088.6*	3216.0	2136.2	938.7	431.5
82.5°	153.8	163.0	217.3	303.6	677.7	1355.4	*1402.7*	1492.5	829.0	405.6	223.4
85°	92.4	99.0	133.0	191.9	385.8	533.0	*532.5*	588.9	390.4	260.9	117.8
87.5°	44.2	49.2	71.1	99.5	194.4	200.0	*187.3*	212.2	237.1	171.1	59.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

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REPORT NUMBER: P319188
CATALOG NUMBER: GLEON-SA4A-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3
2.5°	1510.3	1508.2	1501.6	1496.6	1495.6	1492.5	1490.0	1491.5	1493.5	1494.0	1494.0
5°	1509.8	1504.2	1495.6	1492.0	1496.6	1502.7	1510.3	1520.4	1526.5	1531.1	1534.1
7.5°	1534.1	1523.5	1513.8	1511.8	1520.9	1537.2	1554.4	1575.8	1590.5	1600.6	1602.7
10°	1574.8	1561.6	1551.9	1553.9	1570.2	1593.5	1617.9	1645.3	1667.7	1681.4	1682.4
12.5°	1621.5	1608.8	1599.6	1608.3	1635.2	1663.6	1689.0	1712.8	1733.1	1746.8	1746.8
15°	1675.3	1666.1	1655.5	1675.3	1711.8	1737.2	1747.9	1759.5	1770.7	1780.9	1778.8
17.5°	1727.0	1718.4	1712.8	1736.2	1774.3	1785.9	1778.8	1770.2	1770.2	1775.8	1776.8
20°	1771.7	1764.1	1767.7	1790.5	1810.3	1798.1	1771.7	1744.3	1733.1	1736.2	1739.2
22.5°	1810.8	1807.3	1817.9	1828.6	1814.4	1771.7	1723.0	1685.9	1672.2	1671.2	1672.2
25°	1856.5	1856.0	1869.2	1849.9	1787.0	1708.3	1642.8	1606.7	1599.1	1605.2	1615.4
27.5°	1913.4	1918.9	1925.5	1855.0	1731.1	1612.3	1545.8	1520.9	1528.6	1543.3	1552.9
30°	1986.0	2001.2	1987.0	1842.3	1650.9	1502.7	1439.2	1432.1	1452.9	1473.7	1483.9
32.5°	2056.5	2080.4	2045.9	1809.3	1547.3	1386.4	1337.2	1335.1	1360.5	1380.8	1395.0
35°	2113.4	2160.6	2090.0	1743.8	1427.5	1279.3	1243.3	1229.5	1238.7	1262.5	1278.8
37.5°	2187.5	2266.2	2120.5	1643.8	1297.6	1191.0	1148.8	1117.4	1109.2	1118.9	1127.0
40°	2323.0	2427.1	2134.7	1504.2	1170.7	1102.6	1060.0	1013.8	981.8	958.5	959.0
42.5°	2544.4	2636.8	2125.6	1334.6	1053.4	1016.3	968.1	914.8	863.0	810.2	806.2
45°	2903.8	2948.5	2098.1	1154.9	950.3	926.0	880.8	827.5	758.4	698.5	693.0
47.5°	3479.0	3380.0	2055.5	998.1	859.5	849.3	807.7	746.3	673.2	624.9	620.9
50°	4263.3	4002.9	2034.7	873.2	779.3	782.3	748.3	683.3	614.3	578.7	574.7
52.5°	5201.5	4728.3	2074.8	776.7	714.8	725.4	700.1	639.1	581.3	553.3	549.3
55°	6174.6	5479.6	2117.9	706.7	653.9	674.7	666.0	615.8	563.5	537.6	534.1
57.5°	7007.7	6040.6	2031.6	649.8	599.5	632.0	639.6	601.1	554.4	531.0	526.9
60°	7532.1	6266.5	1805.2	596.5	556.4	598.0	624.4	597.0	557.9	555.9	552.8
62.5°	7780.9	6246.7	1465.6	554.4	529.5	583.3	635.6	619.8	598.5	616.8	618.3
65°	7669.2	5948.2	1091.5	526.4	510.2	588.9	669.1	663.0	610.2	628.5	631.0
67.5°	6934.1	5236.0	808.2	502.1	488.9	604.6	730.0	677.2	587.4	600.6	592.4
70°	*5604.5*	*4151.1*	*623.4*	*474.7*	*467.0*	*602.6*	*757.4*	*668.6*	*562.5*	*565.5*	*543.7*
72.5°	3864.8	2830.7	507.1	449.3	435.6	549.3	738.1	647.3	541.7	518.3	489.4
75°	2101.7	1519.4	431.0	422.9	380.2	482.3	702.6	632.0	522.9	491.9	475.7
77.5°	827.0	630.5	374.1	386.8	332.5	425.9	663.0	603.1	497.0	456.4	448.3
80°	337.6	321.9	310.2	334.5	285.8	372.6	615.3	569.1	466.0	423.4	407.1
82.5°	191.4	200.0	241.1	264.0	232.0	343.2	592.4	541.7	429.0	379.2	359.9
85°	98.0	117.3	168.0	189.4	170.6	291.9	545.7	474.2	344.2	290.4	291.9
87.5°	47.2	65.5	106.1	118.8	110.7	211.2	407.6	343.7	268.0	212.2	205.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

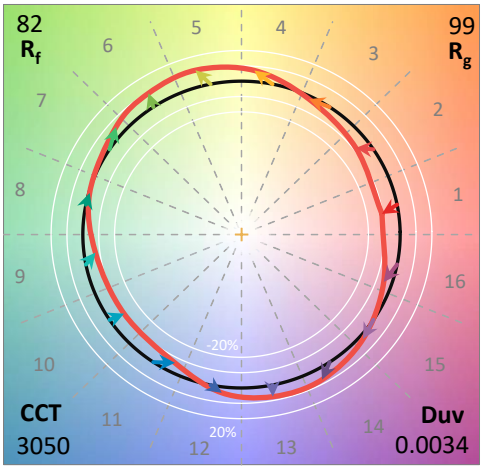
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

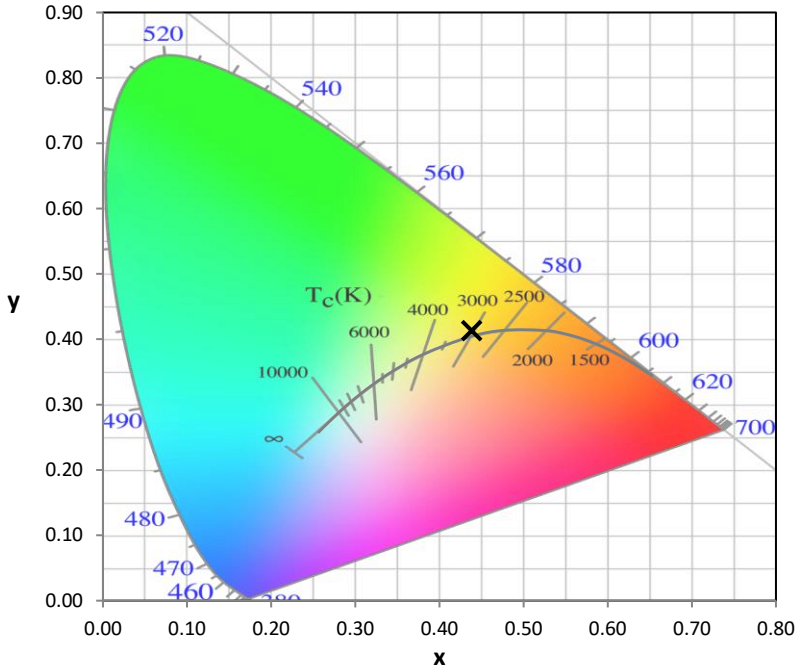
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

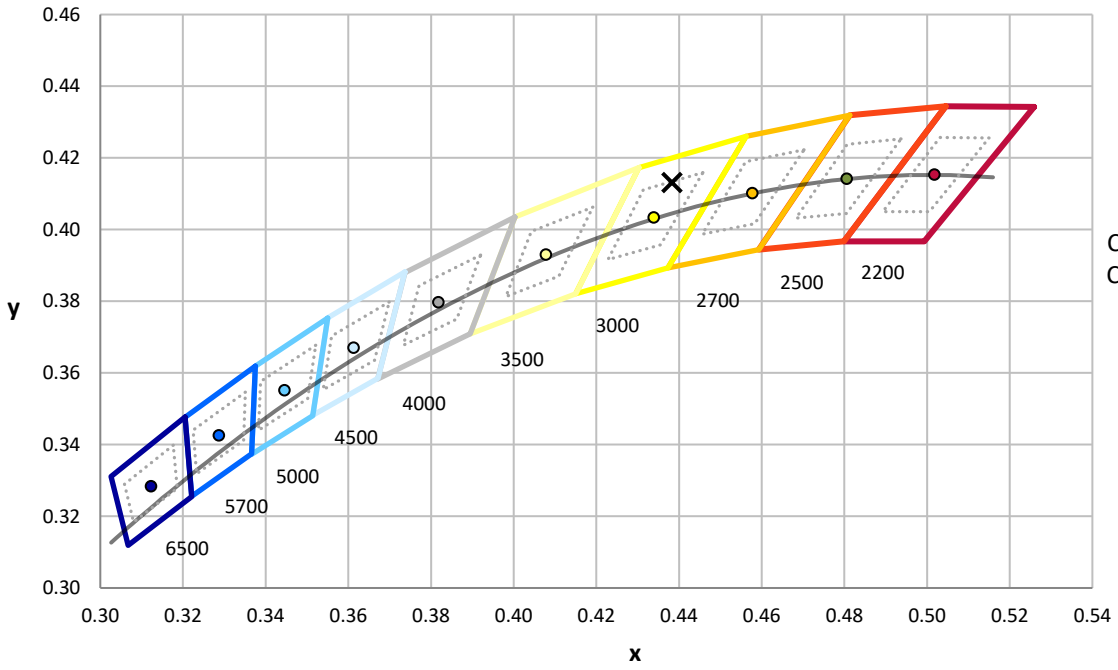
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

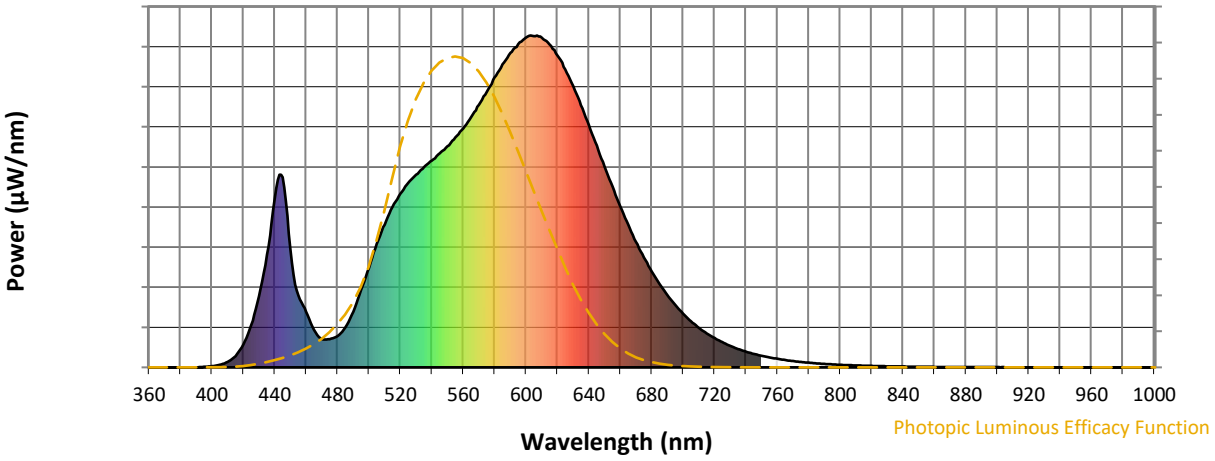


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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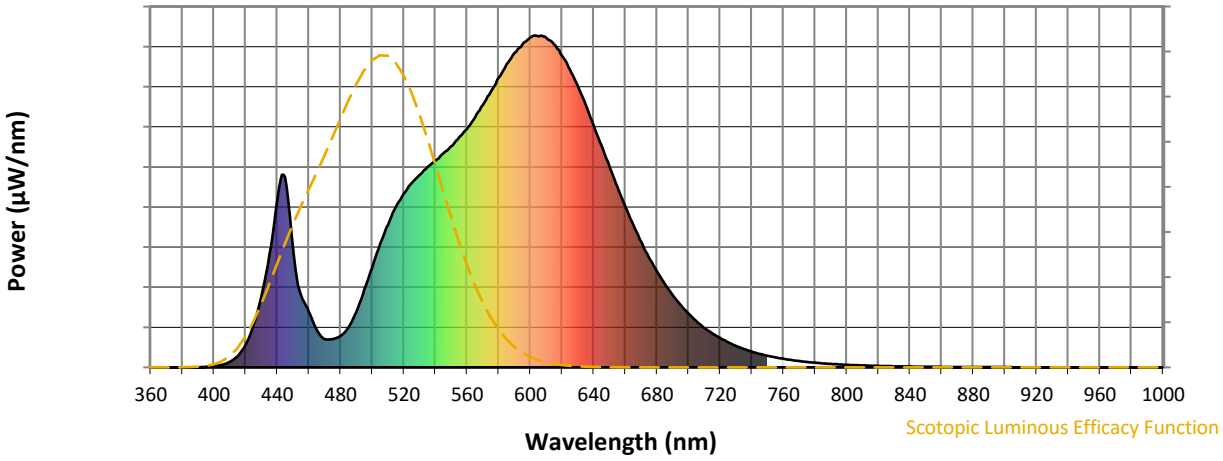
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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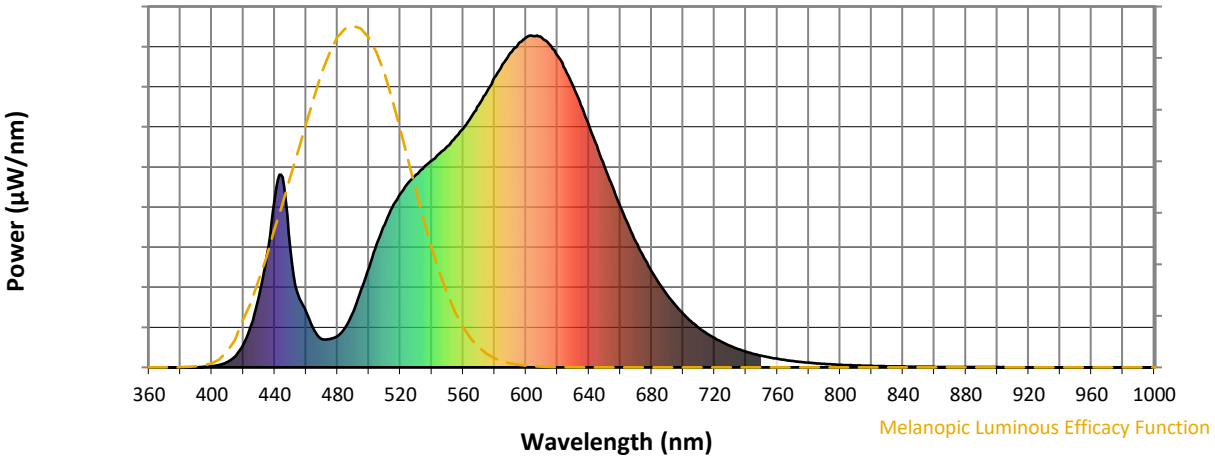
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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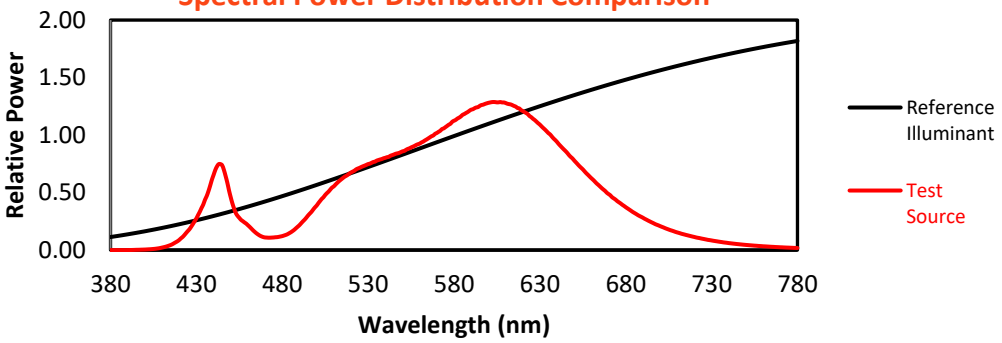
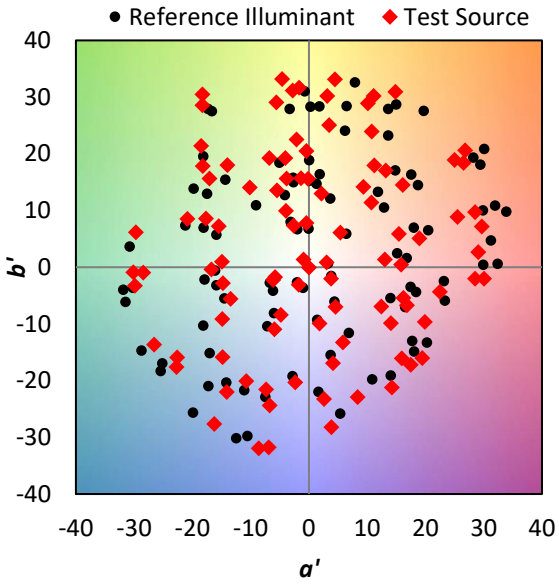
Summary

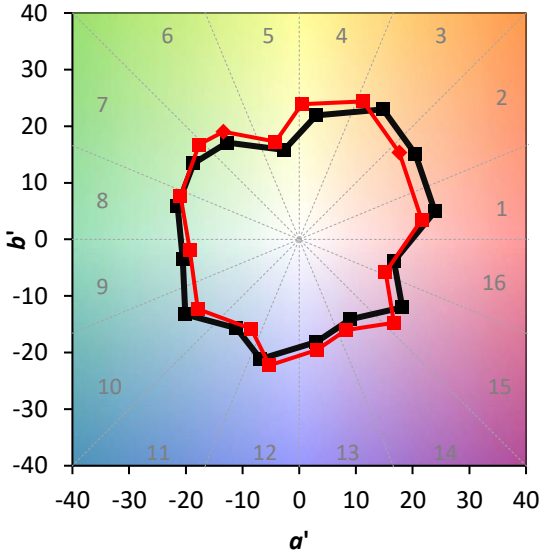
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

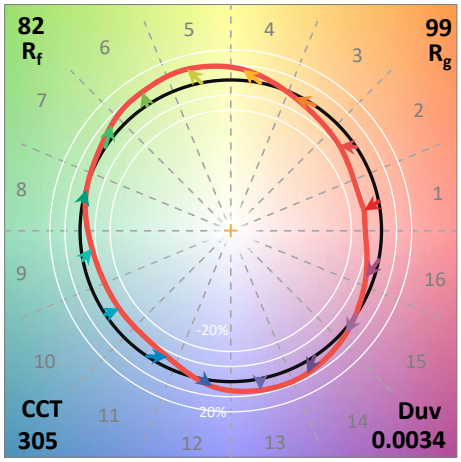
Spectral Power Distribution Comparison

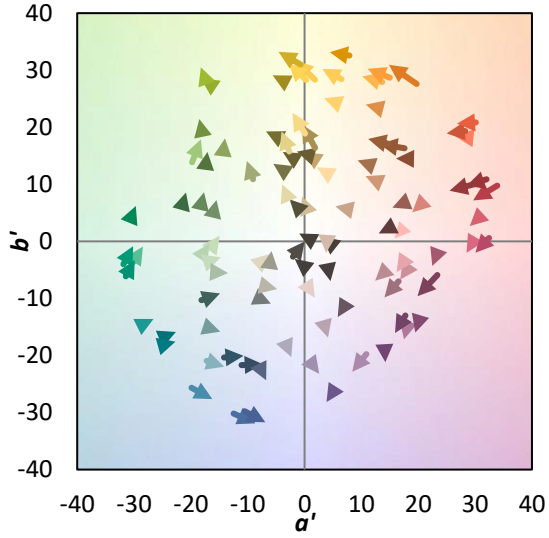


Color Vector Graphics









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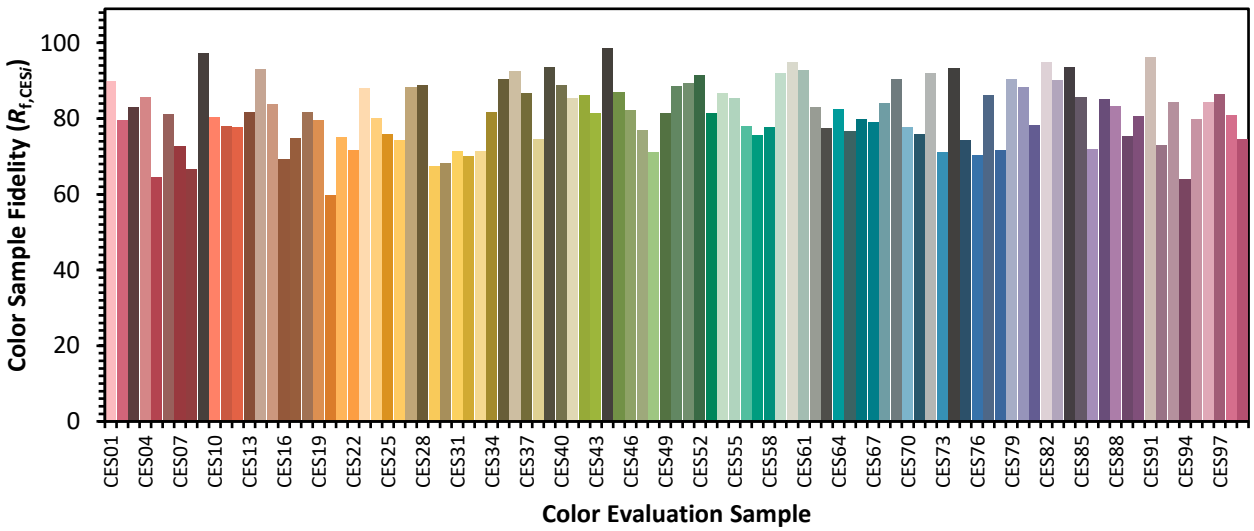
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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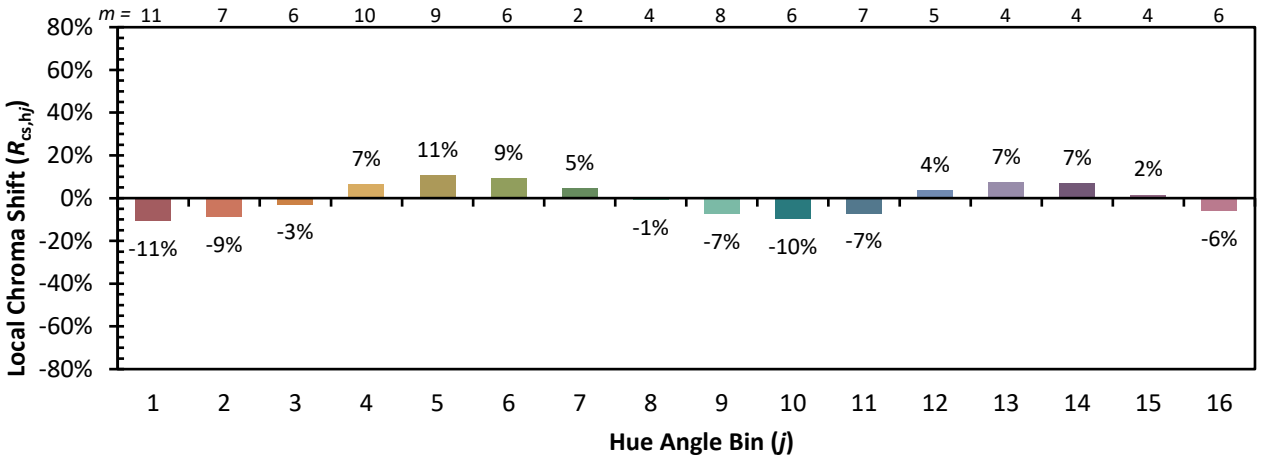
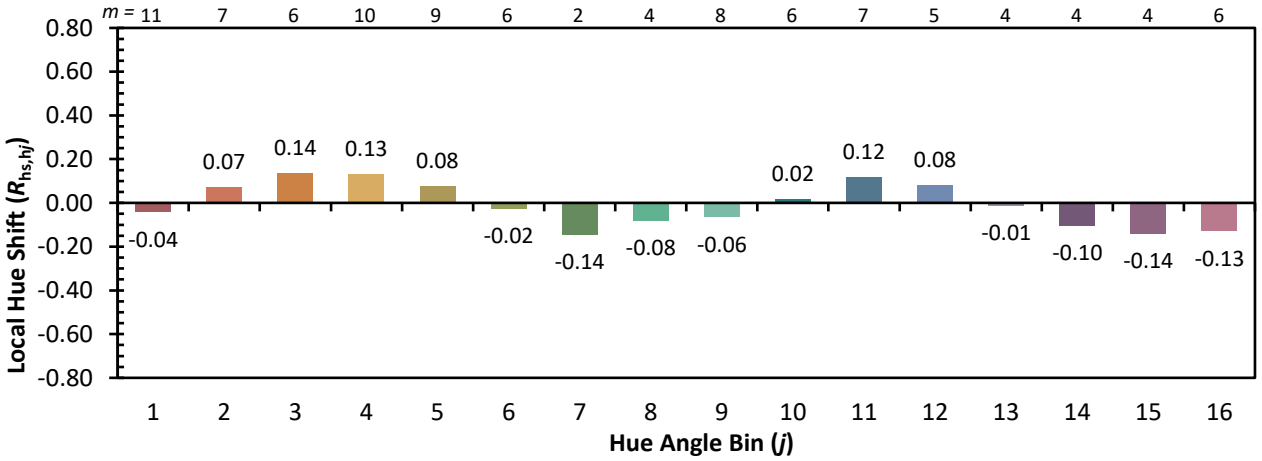
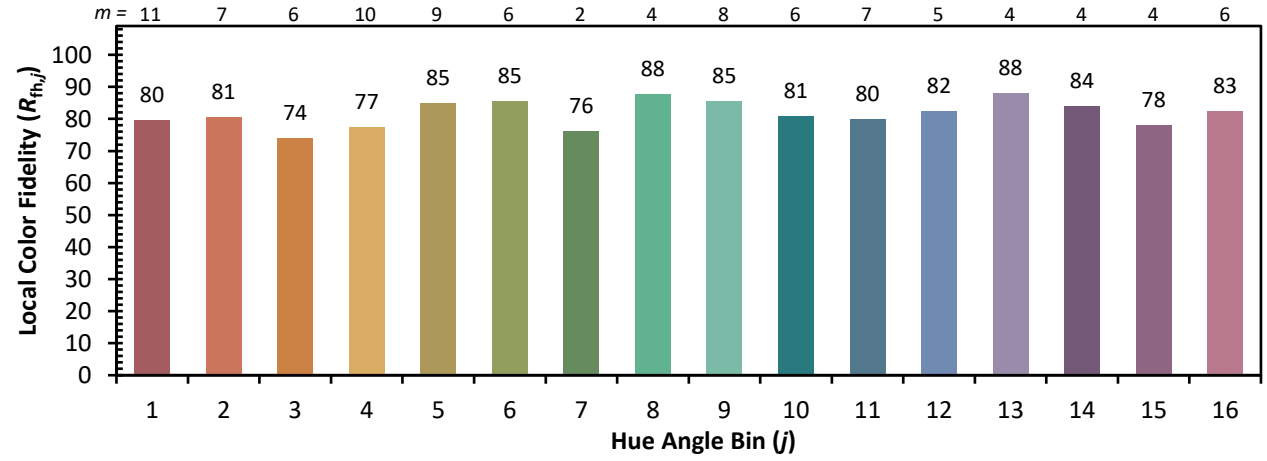
Color Rendition by Hue-Angle Bin







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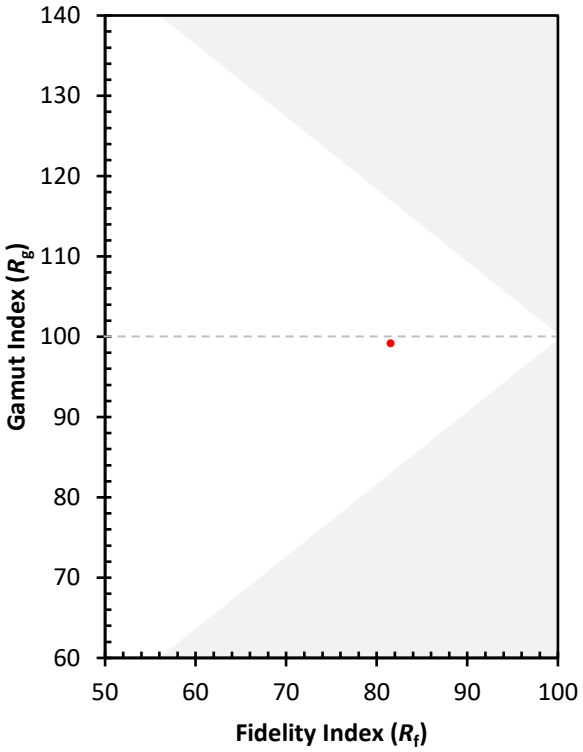
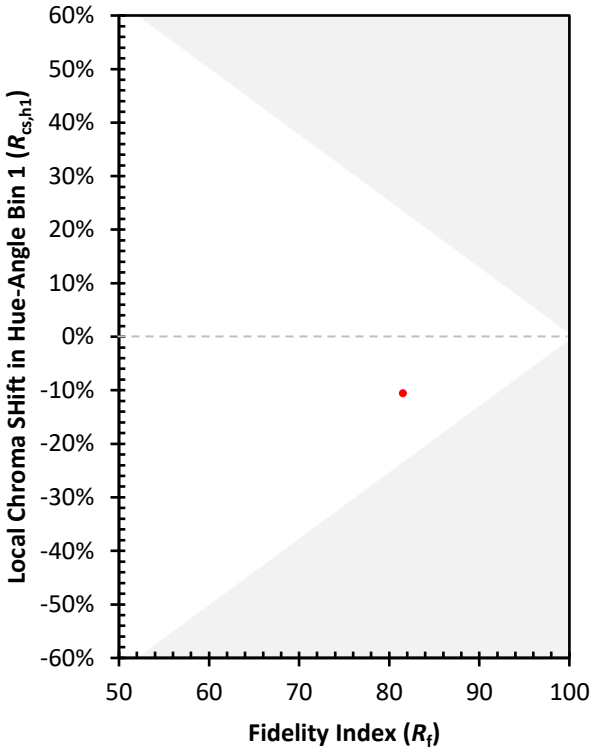
Measure Comparisons





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